



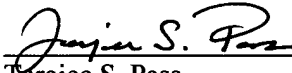
PATENT  
Attorney Docket No. INL-059  
(4643/104)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S): Shin *et al.*  
SERIAL NO.: 10/625,984 GROUP NO.: Not yet assigned  
FILING DATE: July 24, 2003 EXAMINER: Not yet assigned  
TITLE: AQUEOUS SOLUTIONS FOR REDUCING THE RATE OF OXYGEN  
LOSS, AND METHODS THEREOF

**CERTIFICATE OF FIRST CLASS MAILING UNDER 37 C.F.R. 1.8**

I hereby certify that this correspondence, and any documents referred to as enclosed herein, are being deposited with the United States Postal Service as first class mail, postage prepaid, in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on this 20 day of November, 2003.

  
Tarajee S. Pass

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Submitted herewith are:

1. Transmittal Form (1 pg.);
2. Supplemental Information Disclosure Statement (2 pgs.);
3. PTO Form-1449 (2 pgs.) and copies of cited references C15-C29; and
4. Return Receipt Postcard.



# TRANSMITTAL FORM

Application Serial Number	10/625,984
Filing Date	July 24, 2003
First Named Inventor	Shin
Group Art Unit	Not yet assigned
Examiner Name	Not yet assigned
Attorney Docket No.	INL-059 (4643/104)
Patent No.	
Issue Date	

## ENCLOSURES (check all that apply)

- |   |   |   |
|---|---|---|
| <input type="checkbox"/> Fee Transmittal Form<br><input type="checkbox"/> Check Attached<br><input type="checkbox"/> Copy of Fee Transmittal Form<br><br><input type="checkbox"/> Amendment/Response<br><input type="checkbox"/> Preliminary<br><input type="checkbox"/> After Final<br><input type="checkbox"/> Affidavits/declaration(s)<br><input type="checkbox"/> Letter to Official Draftsperson including Drawings [Total Sheets ____]<br><br><input type="checkbox"/> Petition for Extension of Time<br><br><input checked="" type="checkbox"/> Supplemental Information Disclosure Statement<br><input checked="" type="checkbox"/> Form PTO-1449<br><input checked="" type="checkbox"/> Copies of IDS Citations (C15-C29)<br><br><input type="checkbox"/> Certified Copy of Priority Document(s)<br><br><input type="checkbox"/> Sequence Listing submission<br><input type="checkbox"/> Paper Copy/CD<br><input type="checkbox"/> Computer Readable Copy<br><input type="checkbox"/> Statement verifying identity of above | <input type="checkbox"/> Copy of Notice to File Missing Parts of Application<br><br><input type="checkbox"/> Formal Drawing(s)<br><br><input type="checkbox"/> Request For Continued Examination (RCE) Transmittal<br><br><input type="checkbox"/> Power of Attorney (Revocation of Prior Powers)<br><br><input type="checkbox"/> Terminal Disclaimer<br><br><input type="checkbox"/> Executed Declaration and Power of Attorney for Utility or Design Patent Application<br><br><input type="checkbox"/> Small Entity Statement<br><br><input type="checkbox"/> CD(s) for large table or computer program<br><br><input type="checkbox"/> Amendment After Allowance<br><br><input type="checkbox"/> Request for Certificate of Correction<br><input type="checkbox"/> Certificate of Correction (in duplicate) | <input type="checkbox"/> Notice of Appeal to Board of Patent Appeals and Interferences<br><br><input type="checkbox"/> Appeal Brief (in triplicate)<br><br><input type="checkbox"/> Status Inquiry<br><br><input checked="" type="checkbox"/> Return Receipt Postcard<br><input checked="" type="checkbox"/> Certificate of First Class Mailing under 37 C.F.R. 1.8<br><br><input type="checkbox"/> Certificate of Facsimile Transmission under 37 C.F.R. 1.8<br><br><input type="checkbox"/> Additional Enclosure(s) (please identify below) |
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## CORRESPONDENCE ADDRESS

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High Street Tower  
125 High Street  
Boston, MA 02110  
Tel. No.: (617) 248-7000  
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## SIGNATURE BLOCK

Respectfully submitted,  
  
Date: November 20, 2003  
Reg. No. 44,381  
Tel. No.: (617) 310-8327  
Fax No.: (617) 248-7100  
  
Natasha C. Us  
Attorney for the Applicants  
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Attorney Docket No. INL-059  
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Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with the provisions of 37 C.F.R. 1.97 and 1.98, Applicants hereby make of record the publications listed on the accompanying Form PTO-1449, and other information contained herein, for consideration by the Examiner in connection with the examination of the above-identified patent application. Copies of the publications are enclosed.

REMARKS

In accordance with the provisions of 37 C.F.R. 1.97, this statement is being filed (CHECK ONE):

- ☒ (1) within three (3) months of the **filing date** of a national application other than a continued prosecution application under 37 C.F.R. 1.53(d), or within three (3) months of the **date of entry of the national stage** as set forth in 37 C.F.R. 1.491 in an international application, or before the mailing of the **first Office action** on the merits, or before the mailing of a **first Office action** after the filing of a request for continued examination under 37 C.F.R. 1.114; or
- ☐ (2) after the period defined in (1) but before the mailing date of a **final action** or a **notice of allowance** under 37 C.F.R. 1.311, and
- ☐ the requisite Statement is below, **OR**
- ☐ the requisite fee under 37 C.F.R. 1.17(p), namely **\$180.00**, is included herein, or

- ☐ (3) after the mailing date of a **final action** or **notice of allowance** but before the payment of the **issue fee**, **AND**
- ☐ the requisite Statement is below, **AND**
- ☐ the requisite petition fee under 37 C.F.R. 1.17(p), namely **\$180.00** is included herein.

It is respectfully requested that each of the publications listed on the attached Form PTO-1449, and other information contained herein, be made of record in this application.

#### STATEMENT

As required under 37 C.F.R. 1.97(e), Applicant(s), through the undersigned, hereby state either that [check the appropriate space only if either (2) or (3) is checked on the previous page and the Statement is required]:


- ☐ 1. Each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application **not more than three months** prior to the filing of the Information Disclosure Statement; or
- ☐ 2. No item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this Statement after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to **any individual** designated in 37 C.F.R. 1.56(c) **more than three months** prior to the filing of the Information Disclosure Statement.

Respectfully submitted,

Date: November 20, 2003  
Reg. No. 44,381

Tel. No.: (617) 310-8327  
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2714101

  
\_\_\_\_\_  
Natasha C. Us  
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125 High Street  
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<b>FORM PTO - 1449</b>				<b>ATTY DOCKET NO.:</b> INL-059					
<b>INFORMATION DISCLOSURE STATEMENT</b>				<b>APPLICANTS:</b> Shin <i>et al.</i>					
				<b>SERIAL NO.:</b> 10/625,984					
				<b>FILING DATE:</b> July 24, 2003					
				<b>GROUP:</b> Not yet assigned					
<b>U.S. PATENT DOCUMENTS</b>									
<b>EXAM. INIT.</b>		<b>DOCUMENT NUMBER</b>	<b>DATE</b>	<b>NAME</b>	<b>CLASS</b>	<b>SUB CLASS</b>	<b>FILING DATE IF APPROPRIATE</b>		
<b>FOREIGN PATENT DOCUMENTS</b>									
<b>EXAM. INIT.</b>		<b>DOCUMENT NUMBER</b>	<b>DATE</b>	<b>COUNTRY CODE</b>	<b>CLASS</b>	<b>SUB CLASS</b>	<b>FILING DATE</b>	<b>ABSTRACT ONLY</b>	<b>ENGLISH LANG (Y/N)</b>
<b>OTHER ART, JOURNAL ARTICLES, ETC.</b>									
<b>EXAM. INIT.</b>	<b>OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)</b>								
	C15	Baraona et al.: Effects of Alcohol and Polyenylphosphatidylcholine on Hepatic Nitric Oxide Production and its Peroxynitrite-Mediated Toxicity, <i>Alcoholism Clinical and Experimental Research</i> , Vol. 24, No. 5 Supplement, pp. 200A (2000) (Abstract only)							
	C16	Bentley et al.: Activation of Superoxide Production and Differential Exocytosis in Polymorphonuclear Leukocytes by Cytochalasins A, B, C, D and E : Effects of Various Ions, <i>Biochimica et Biophysica Acta</i> , Vol. 678, pp. 238-44 (1981)							
	C17	Cho et al.: Effects of Choline Chloride and its Analogues on Photosynthesis in Wheat Protoplasts, <i>Proceedings of the Fourteenth Annual Plant Growth Regulator Society of America Meeting</i> , pp. 131-34 (1987)							
<b>EXAMINER</b>					<b>DATE CONSIDERED</b>				



PAM. INIT.		OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)
	C18	Enami: Effects of Phenyl N- <i>tert</i> -Butyl Nitron and its Derivatives on Hepatocarcinogenesis in Rats Fed a Choline-Deficient, L-Amino Acid-Defined Diet, <i>Journal of Nara Medical Association</i> , Vol. 51, No. 6, pp. 468-482 (2000)
	C19	Erecinska: Stimulation of the NA+/K+ Pump Activity During Electrogenic Uptake of Acidic Amino Acid Transmitters by Rat Brain Synaptosomes, <i>Journal of Neurochemistry</i> , Vol. 52, pp. 135-9 (1989)
	C20	Farombi et al.: Antioxidant activity of palm oil carotenes in peroxy radical-mediated peroxidation of phosphatidyl choline liposomes, <i>Redox Report</i> , Vol. 4, No. 1/2, pp. 61-68 (1999)
	C21	Farombi et al.: Antioxidant activity of palm oil carotenes in organic solution: effects of structure and chemical reactivity, <i>Food Chemistry</i> , Vol. 64, No. 3, pp. 315-21 (1999)
	C22	Farombi et al.: Evaluation of the Antioxidant activity and partial characterisation of extracts from browned yam flour diet, <i>Food Research International</i> , Vol. 33, No. 6, pp. 493-99 (2000)
	C23	Fiedler et al.: Die Wirkung von Cholinchlorid auf den O <sub>2</sub> -Gehalt des arteriellen Blutes bei Lebererkrankungen, <i>Dtsch. Zeitschr. F. Verdauungs- i. Stoffwechselkrankheiten</i> , Vol. 26, pp. 79-84 (1966)
	C24	Kaul et al.: Plant Polyphenols Inhibit Benzoyl Peroxide-Induced Superoxide Anion Radical Production and Diacylglyceride Formation in Murine Peritoneal Macrophages, <i>Nutrition and Cancer</i> , Vol. 35, No. 2, pp. 207-211 (1999)
	C25	Nakae et al.: Preventive Effects of Various Antioxidants on Endogenous Liver Carcinogenesis in Rats Fed a Choline-Deficient, L-Amino Acid-Defined Diet, <i>Food Factors for Cancer Prevention</i> , pp. 92-97
	C26	Phung et al.: Role of Antioxidants in Inhibiting Hepatic Fibrosis in a Murine Nutritional Model of Nash, <i>Hepatology</i> , Vol. 32, No. 4 (Abstract only)
	C27	West et al.: Proton translocation by cytochrome oxidase in (antimycin + myxothiazol)-treated rat liver mitochondria using ferrocyanide or hexammineruthenium as electron donor, <i>Biochemistry Journal</i> , Vol. 236, No. 1, pp. 15-21 (1986)
	C28	Wilson et al.: Protection by Antioxidants Against Arterial Sclerosis of Chronic Choline-Deficiency, <i>Experimental and Molecular Pathology</i> , Vol. 21, pp. 118-122 (1974)
	C29	Wydrzynski et al.: Selective Inhibition of Photosystem II Reactions from Water Splitting to Q Reduction in Thylakoid Samples by Lauroyl Choline Chloride: Evidence from Fluorescence Transient Measurements, <i>Advances in Photosynthesis Research</i> , Vol. 1, pp. 437-40 (1984)
EXAMINER		DATE CONSIDERED